CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CEMENT/2016-17 Date: 20.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
*NAME OF THE WORK	:	Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	18.04.2016
PERIOD OF TESTING	:	18.04.2016 to 20.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	440 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH. I.A.
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/SAND-Gradation/2016-17 : 20.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ashwathnarayana,**
# 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.

*** Name of Work** : Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 18.04.2016

Date of Testing : 20.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.52	90-100	90-100	90-100	95-100
2.36	77.08	60-95	75-100	85-100	95-100
1.18	58.53	30-70	55-90	75-100	90-100
600 Micron	37.68	15-34	35-59	60-79	80-100
300 Micron	12.31	5-20	8-30	12-40	15-50
150 Micron	2.17	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/AGG/GR/2016-17 : 20.04.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
* Name of Work	: Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 18.04.2016
Date of Testing	: 20.04.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.60	95-100	85-100
20	35.96	30-70	0-20
10	15.03	10-35	0-5
4.75	1.84	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 28.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
*Name of the work	: Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	: AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 28.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.04.2016	28.04.2016	8.115	352.6	15.67
2	21.04.2016	28.04.2016	8.137	364.7	16.21
3	21.04.2016	28.04.2016	8.187	372.8	16.57

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T-2377

Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 19.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
*Name of the work	: Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	: AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 19.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.04.2016	19.05.2016	8.215	476.9	21.20
2	21.04.2016	19.05.2016	8.326	487.6	21.67
3	21.04.2016	19.05.2016	8.287	498.7	22.16

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 29.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*Agency : **Mr. Ashwathnarayana,**
38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.

*Name of the work : Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.

*Reference : AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016

*Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 7^{th} day

Sample Received on : 29.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2016	29.04.2016	8.138	363.8	16.17
2	22.04.2016	29.04.2016	8.164	376.2	16.72
3	22.04.2016	29.04.2016	8.215	386.5	17.18

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 20.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
*Name of the work	: Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	: AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 20.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2016	20.05.2016	8.193	475.2	21.12
2	22.04.2016	20.05.2016	8.312	512.7	22.79
3	22.04.2016	20.05.2016	8.274	493.5	21.93

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 30.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
*Name of the work	: Improvements to roads and drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	: AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 30.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2016	30.04.2016	8.125	360.2	16.01
2	23.04.2016	30.04.2016	8.211	385.4	17.13
3	23.04.2016	30.04.2016	8.169	371.5	16.51

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 21.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 21.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2016	21.05.2016	8.427	487.3	21.66
2	23.04.2016	21.05.2016	8.353	476.8	21.19
3	23.04.2016	21.05.2016	8.218	468.7	20.83

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 02.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
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*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 02.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2016	02.05.2016	8.125	372.6	16.56
2	25.04.2016	02.05.2016	8.169	389.5	17.31
3	25.04.2016	02.05.2016	8.235	380.6	16.92

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-04/015k/CUBE/2016-17 23.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Agency	: **Mr. Ashwathnarayana,** # 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore - 13.
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*Reference	: AEE/BBMP/VSD/PR/322/2016-17 Dated: 18.04.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 23.05.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2016	23.05.2016	8.237	479.5	21.31
2	25.04.2016	23.05.2016	8.365	499.6	22.20
3	25.04.2016	23.05.2016	8.219	485.7	21.59

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